

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P348786

Luminaire Tested: **ARCH-N-PA1-19-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-827-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1755 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G0

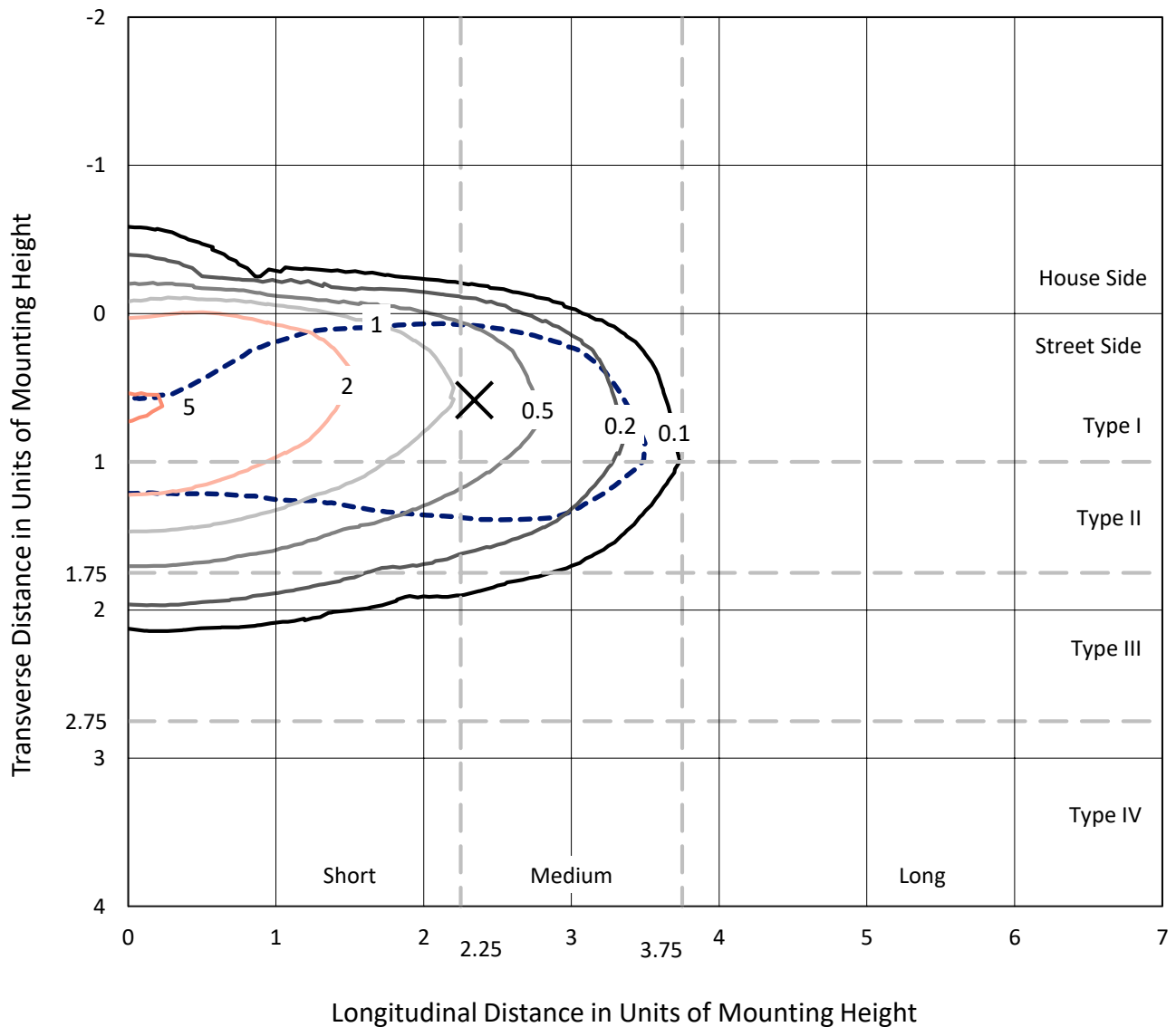
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

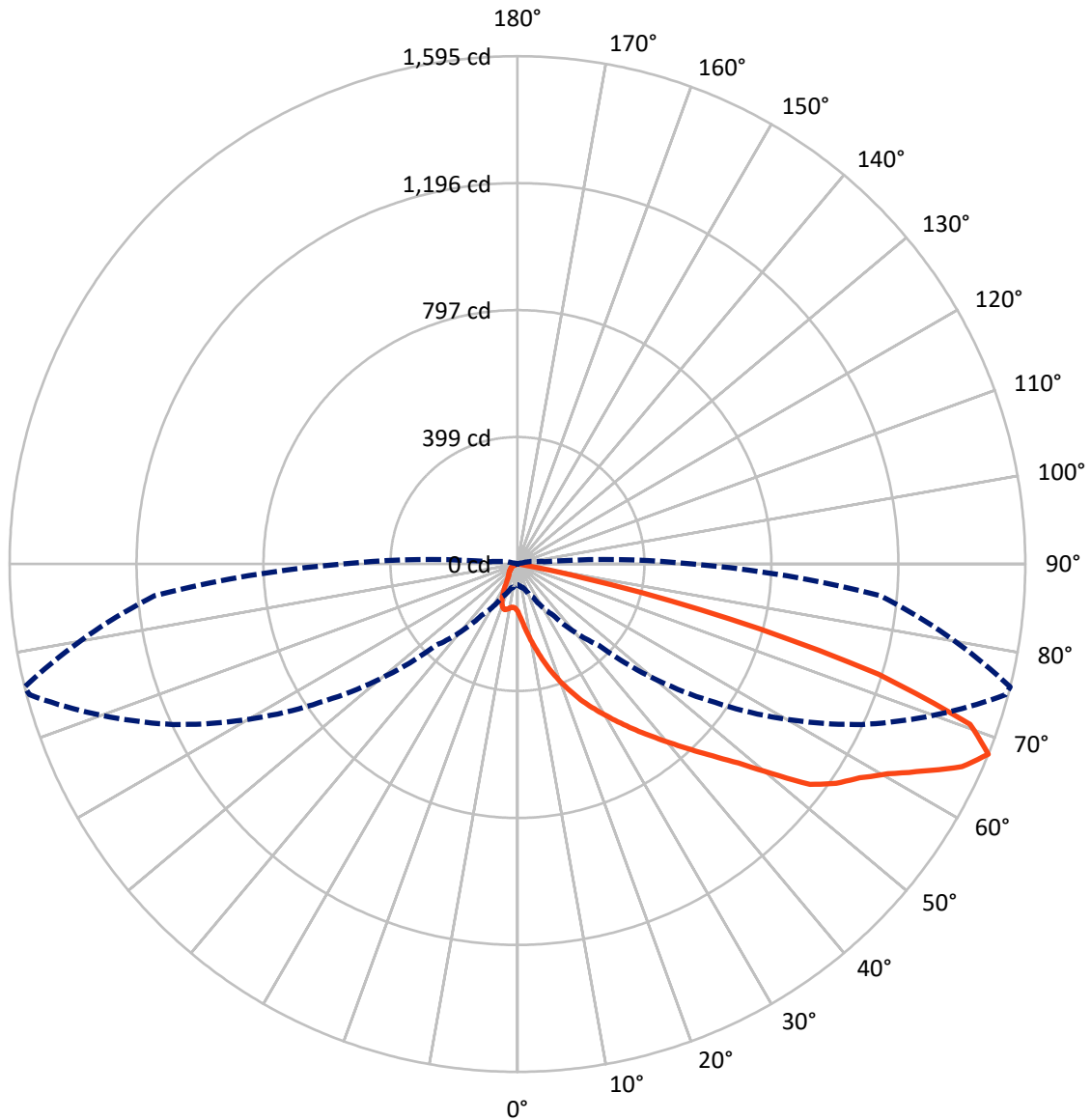
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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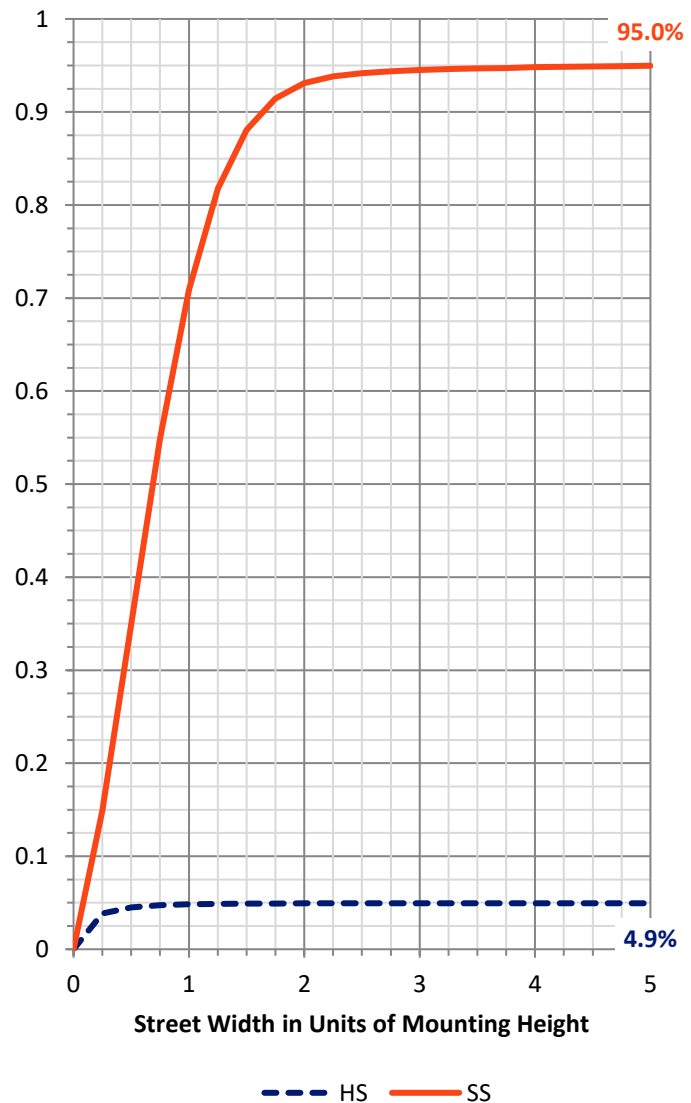
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	87.2	0.0	87.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	1667.9	0.0	1667.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	1755.0	0.0	1755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	1.1
10°-20°	73.4	4.2
20°-30°	149.3	8.5
30°-40°	259.2	14.8
40°-50°	366.2	20.9
50°-60°	415.3	23.7
60°-70°	344.4	19.6
70°-80°	124.8	7.1
80°-90°	4.0	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1755.0	100.0
0°-180°	1755.0	100.0

Coefficient of Utilization



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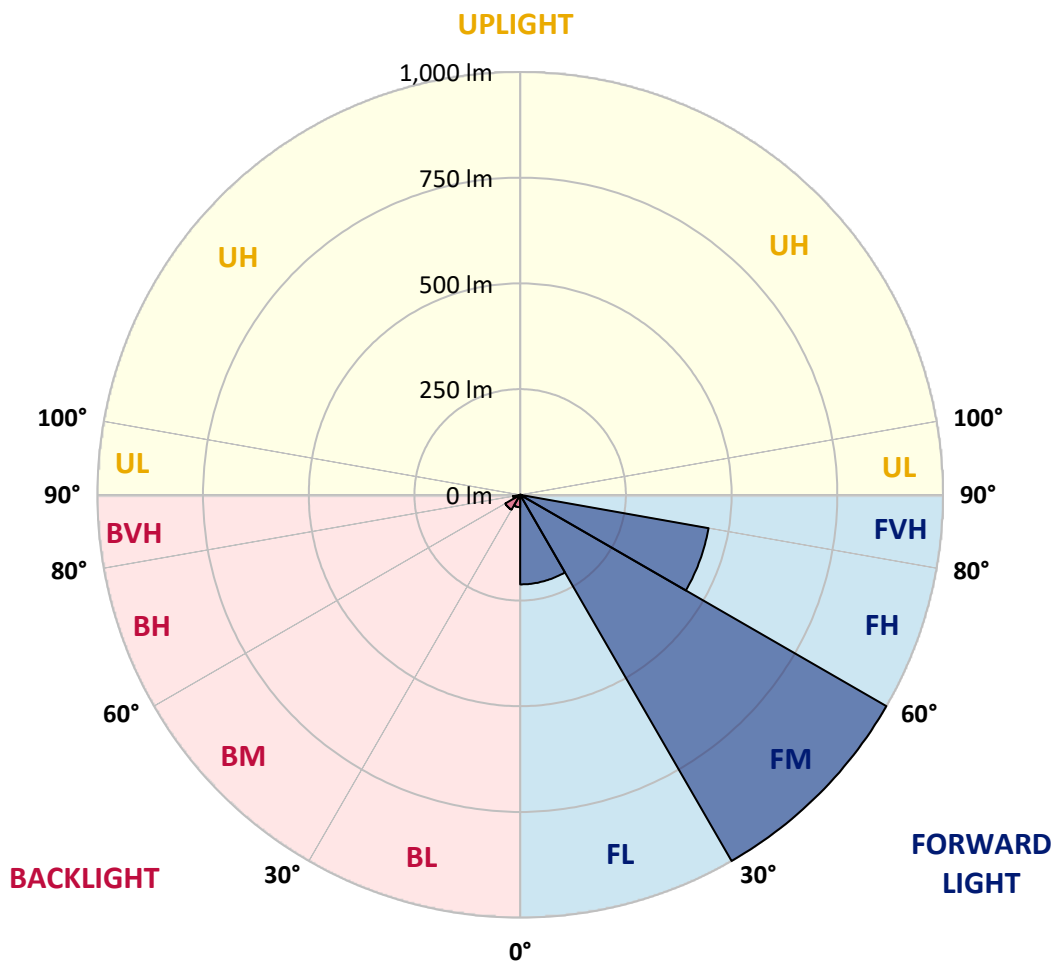
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.8	12.1			
FM	(30°-60°)	999.8	57.0			
FH	(60°-80°)	452.3	25.8			G0/660
FVH	(80°-90°)	3.9	0.2			G0/10
BL	(0°-30°)	29.4	1.7	B0/110		
BM	(30°-60°)	40.8	2.3	B0/220		
BH	(60°-80°)	16.8	1.0	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9
2.5°	222.2	217.2	218.4	215.2	209.3	197.3	187.1	177.4	166.1	165.7	156.4
5°	299.7	295.4	294.9	288.4	277.8	257.4	237.5	214.9	189.7	187.9	168.1
7.5°	370.0	366.6	365.3	357.6	337.8	318.0	292.1	258.9	219.5	216.1	183.9
10°	423.9	422.3	422.6	417.1	400.2	381.7	347.8	305.4	253.2	248.0	202.8
12.5°	464.8	465.2	468.0	464.6	455.2	441.5	405.3	355.0	290.6	283.4	224.4
15°	494.9	496.8	501.9	506.1	505.5	493.6	460.4	405.4	330.3	322.4	248.5
17.5°	514.4	516.5	523.9	533.3	541.9	539.1	513.6	454.0	370.4	361.3	274.2
20°	531.4	534.0	541.9	554.3	570.4	573.8	557.1	501.1	410.5	399.3	300.8
22.5°	568.4	568.4	573.2	580.4	595.7	604.7	594.0	544.9	450.1	438.5	328.0
25°	635.3	632.8	631.1	625.4	628.8	634.3	628.4	585.8	489.9	478.2	355.5
27.5°	714.8	716.4	702.7	687.4	675.6	669.9	660.2	623.7	528.2	515.3	382.4
30°	798.7	799.2	783.1	763.5	737.5	715.8	699.1	659.9	567.6	553.5	408.6
32.5°	874.4	871.4	855.4	828.8	795.9	771.6	736.8	700.4	609.3	595.7	437.6
35°	934.4	930.9	911.4	887.2	853.0	828.6	786.7	740.8	653.1	639.8	466.8
37.5°	978.2	974.1	954.1	929.2	899.7	885.5	844.6	784.7	700.9	686.6	497.5
40°	993.4	989.8	977.3	959.1	935.4	932.2	906.0	835.2	753.0	737.8	532.2
42.5°	984.4	980.8	976.4	970.2	960.4	963.5	964.0	892.8	810.8	795.8	570.6
45°	948.4	945.2	949.8	958.8	971.1	986.3	1016.9	954.7	875.4	859.4	615.0
47.5°	895.4	893.1	905.9	928.3	964.1	1006.1	1065.3	1019.7	947.9	933.1	670.3
50°	820.0	819.7	845.2	886.2	941.2	1015.6	1115.3	1093.7	1048.7	1033.0	747.3
52.5°	702.7	703.5	753.7	819.3	900.9	1009.1	1147.4	1188.8	1165.9	1149.6	814.0
55°	591.0	595.6	631.2	725.8	839.3	985.1	1158.5	1233.1	1230.5	1215.1	851.0
57.5°	481.5	489.9	524.2	612.6	749.2	929.9	1152.4	1252.4	1278.7	1266.9	899.9
60°	363.0	366.8	406.3	488.9	633.6	829.0	1108.3	1262.8	1344.5	1336.3	970.9
62.5°	230.9	240.5	275.6	355.3	493.4	688.9	1034.0	1262.7	1426.8	1431.3	1062.5
65°	121.7	132.9	151.5	220.2	339.0	532.4	922.3	1250.8	1527.9	1534.1	1134.1
67.5°	65.6	68.8	78.7	114.3	196.6	360.7	758.1	1192.4	1586.4	1594.6	1144.1
70°	48.0	49.8	53.4	63.2	99.0	209.5	553.2	1059.9	1511.0	1507.9	1016.5
72.5°	36.8	39.6	42.4	46.3	56.9	111.8	344.4	830.0	1205.6	1185.3	759.8
75°	29.1	29.5	33.5	37.0	42.7	63.7	153.0	483.4	735.8	687.8	394.0
77.5°	23.2	23.5	25.8	28.9	34.3	41.8	47.4	190.2	234.9	209.6	85.5
80°	13.8	14.5	19.2	22.3	28.5	26.4	17.3	41.3	36.7	33.2	14.4
82.5°	7.7	8.3	10.8	17.6	19.8	12.6	8.6	11.2	8.6	8.4	4.1
85°	0.0	0.4	7.0	10.9	8.1	2.8	3.6	3.7	2.5	2.4	1.6
87.5°	0.0	0.0	2.2	2.1	0.3	0.5	0.8	1.2	1.0	1.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9	148.9
2.5°	151.8	147.6	139.8	132.1	125.7	120.3	115.6	113.7	112.1	111.9	110.7
5°	158.6	150.2	135.2	122.9	114.7	108.8	103.8	100.7	98.4	97.4	96.6
7.5°	168.8	156.1	134.6	120.4	110.6	100.7	91.5	81.5	75.3	72.9	71.5
10°	181.2	163.9	136.9	119.7	102.5	81.7	66.4	53.8	48.6	46.9	46.4
12.5°	195.8	173.7	140.9	115.4	85.3	58.1	45.8	41.5	40.4	39.8	39.8
15°	212.5	184.4	143.7	103.0	63.1	43.9	39.7	37.7	36.4	35.8	35.8
17.5°	229.5	194.9	142.3	84.9	46.5	39.1	35.9	33.8	32.1	31.4	31.2
20°	246.8	204.5	134.6	63.2	39.4	35.5	31.9	29.5	27.8	27.1	27.0
22.5°	264.6	212.8	121.1	46.4	35.4	31.5	28.0	25.6	24.0	23.4	23.1
25°	282.0	219.5	102.2	37.5	31.6	27.7	24.4	22.1	20.7	20.1	20.0
27.5°	298.2	223.7	80.3	33.1	28.3	24.3	21.3	19.3	18.1	17.6	17.5
30°	312.8	224.1	59.4	29.9	25.4	21.4	18.6	16.8	15.8	15.3	15.1
32.5°	327.6	220.9	43.2	27.0	22.7	18.8	16.1	14.8	14.0	13.6	13.6
35°	341.5	213.4	33.7	24.5	20.1	16.4	14.2	13.2	12.8	12.4	12.4
37.5°	355.1	202.7	28.6	22.2	17.6	14.3	12.5	11.9	11.5	11.2	11.2
40°	369.0	189.2	26.0	20.1	15.6	12.7	11.2	10.6	10.2	9.9	9.8
42.5°	386.0	173.7	24.3	18.2	13.8	11.2	9.8	9.2	8.9	8.6	8.5
45°	405.6	160.3	22.9	16.3	12.4	10.0	8.5	7.9	7.5	7.1	7.0
47.5°	434.0	150.6	21.1	14.2	11.0	8.7	7.4	6.7	6.0	5.6	5.5
50°	470.2	142.6	18.7	12.4	9.6	7.4	6.2	5.3	4.7	4.3	4.3
52.5°	488.2	132.2	16.5	10.8	8.1	6.2	5.0	4.0	3.7	3.3	3.3
55°	495.5	124.2	14.4	9.2	6.7	5.2	3.9	3.1	2.8	2.6	2.5
57.5°	515.8	121.9	12.5	7.8	5.5	4.1	3.0	2.3	2.2	1.8	1.8
60°	548.4	123.0	10.8	6.6	4.5	3.2	2.2	1.8	1.6	1.3	1.3
62.5°	583.7	121.6	9.2	5.7	3.5	2.3	1.5	1.3	1.3	0.8	0.7
65°	590.5	108.3	7.8	4.7	2.7	1.7	1.0	0.8	1.2	0.2	0.0
67.5°	548.1	84.0	6.8	3.6	2.0	1.3	0.8	0.4	1.0	0.0	0.0
70°	438.2	53.4	5.5	2.6	1.5	1.1	0.6	0.2	0.8	0.0	0.0
72.5°	309.9	31.0	4.3	1.8	1.3	0.8	0.5	0.0	0.5	0.0	0.0
75°	156.7	16.5	2.7	1.4	1.0	0.6	0.3	0.0	0.1	0.0	0.0
77.5°	33.9	7.7	1.7	1.0	0.7	0.4	0.2	0.0	0.0	0.0	0.0
80°	7.4	3.4	1.1	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	1.8	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	0.9	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)